

MODIFICATION OF "S" AND "X" BAND INTERCEPT SYSTEM

This modification consists of moving an existing "X" band system from the Q bay of the vehicle to the nose section. The "X" band system will be integrated with an existing "S" band system located in the nose section. The "S" band dish antenna will be replaced with a horn antenna. A special traveling wave tube amplifier package containing an amplifier for each system will be installed.

System Characteristics

	"S" Band	"X" Band
Bandwidth	2-4 kmc	8-11 kmc
Sensitivity	-65 dbm	-63 dbm
Beamwidth	100°	100°

System Cost

120 hrs Sr. Eng. @ \$4.55	\$ 546.00
300 hrs Jr. Eng. @ 3.32	996.00
600 hrs Tech. @ 2.23	<u>1,388.00</u>
Total Eng. cost	2,930.00
Overhead @ 85%	2,490.50
Material	<u>3,750.00</u>
	9,170.50
G & A @ 13%	<u>1,192.10</u>
	10,362.60
Profit @ 10%	<u>1,036.20</u>
Total Cost	\$11,398.80

25 YEAR RE-REVIEW

Cost of the above system using the customer's traveling wave tube package and modifying to use one "S" band and one "X" band TWT:

80 hrs. Sr. Eng. @ 4.55	\$ 364.00
200 hrs. Jr. Eng. @ 3.32	664.00
400 hrs. Tech. @ 2.23	<u>892.00</u>
	1,920.00
Overhead @ 85%	<u>1,632.00</u>
	3,552.00
Material	<u>2,500.00</u>
	6,052.00
G & A @ 13%	<u>786.76</u>
	6,838.76
Profit @ 10%	<u>683.87</u>
Total Cost	\$7,522.63